

What is claimed is:

1. A transmission/reception apparatus comprising:

reception means for receiving radio signals
5 comprised of a plurality of carrier signals, subjected
to frequency division multiplexing, from each of a
plurality of branches;

branch selection means for calculating received
amplitude levels for each carrier signal in all the
10 branches, and detecting a branch providing a largest
received amplitude for each carrier signal;

demodulation means for despreding a selected
carrier signal with a predetermined spreading code to
obtain data; and

15 transmission means for performing the frequency
division multiplexing using the plurality of carrier
signals to transmit for each carrier from the branch
selected in said branch selection means.

2. The transmission/reception apparatus
20 according to claim 1, wherein said transmission means
comprising:

average level calculation means for calculating an
average received amplitude level of selected carrier
signals;

25 division coefficient calculation means for
calculating a ratio of a received amplitude level of one
of the selected carrier signals to the average received

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amplitude level for each carrier; and

division means for dividing a transmission signal immediately before being subjected to the frequency division multiplexing by the ratio for each carrier signal.

3. The transmission/reception apparatus according to claim 2, wherein said division coefficient calculation means holds an arbitrary threshold, compares a calculated ratio with the threshold, and outputs the threshold to said division means instead of the calculated ratio when the threshold is larger than the calculated ratio.

4. A transmission diversity method in an OFDM-CDMA communication, said method comprising:

the reception step of receiving radio signals comprised of a plurality of carrier signals, subjected to frequency division multiplexing, from each of a plurality of branches, calculating received amplitude levels for each carrier signal in all the branches, detecting a branch providing a largest received amplitude for each carrier signal, and despreading a received signal from a detected branch with a predetermined spreading code for each carrier signal to obtain data; and

the transmission step of spreading a plurality of transmission data with respective different spreading codes, and performing the frequency division

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